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(54) Rotary-Type Encoder with Push Switch

(57) [Abstract]

[Purpose] Relates to a rotary-type encoder with push switch used in a remotely controlled device, etc., such as a video tape recorder, for setting or operating various modes; and aims at providing a small (particularly in the height dimension), lightweight, and inexpensive rotary-type encoder with a push switch.

[Constitution] A contact plate 22 in which each contact is printed and burned on a heat-resistant resin film is bonded to a molded resin substrate to form a fixed contact substrate 21. The elastic sliding contact 23 of a rotary-type encoder part is directly mounted on an operation knob 30. A push switch part, also, is of a system for directly pushing a diaphragm-type, elastic moving contact 35 mounted on the fixed contact substrate 21, by means of an operating button 37. This enables a small and lightweight rotary-type encoder with push switch.

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|----|---|----|--|
| 21 | Fixed contact substrate                         | 28 | Elastic leg with external catch        |
| 22 | Contact plate made of heat-resistant resin film | 29 | Elastic leg with internal catch        |
| 23 | Arc-shaped fixed contact for encoder            | 30 | Annular knob                           |
| 24 | Fixed contact for push switch                   | 31 | Elastic sliding contact                |
| 25 | Terminal part for external connection           | 33 | Torsion coil spring                    |
|    |   | 35 | Diaphragm-type, elastic moving contact |
|    |   | 37 | Operation button                       |
|    |   | 39 | Compression spring                     |

